

1. **Introduction**
 2. **Background**
 3. **Methodology**
 4. **Results**
 5. **Discussion**
 6. **Conclusion**
 7. **References**
 8. **Appendix**
 9. **Index**
 10. **Table of Contents**
 11. **Abstract**
 12. **Summary**
 13. **Keywords**
 14. **Subject Headings**
 15. **Notes**
 16. **References**
 17. **Appendix**
 18. **Index**
 19. **Table of Contents**
 20. **Abstract**
 21. **Summary**
 22. **Keywords**
 23. **Subject Headings**
 24. **Notes**
 25. **References**
 26. **Appendix**
 27. **Index**
 28. **Table of Contents**
 29. **Abstract**
 30. **Summary**
 31. **Keywords**
 32. **Subject Headings**
 33. **Notes**
 34. **References**
 35. **Appendix**
 36. **Index**
 37. **Table of Contents**
 38. **Abstract**
 39. **Summary**
 40. **Keywords**
 41. **Subject Headings**
 42. **Notes**
 43. **References**
 44. **Appendix**
 45. **Index**
 46. **Table of Contents**
 47. **Abstract**
 48. **Summary**
 49. **Keywords**
 50. **Subject Headings**
 51. **Notes**
 52. **References**
 53. **Appendix**
 54. **Index**
 55. **Table of Contents**
 56. **Abstract**
 57. **Summary**
 58. **Keywords**
 59. **Subject Headings**
 60. **Notes**
 61. **References**
 62. **Appendix**
 63. **Index**
 64. **Table of Contents**
 65. **Abstract**
 66. **Summary**
 67. **Keywords**
 68. **Subject Headings**
 69. **Notes**
 70. **References**
 71. **Appendix**
 72. **Index**
 73. **Table of Contents**
 74. **Abstract**
 75. **Summary**
 76. **Keywords**
 77. **Subject Headings**
 78. **Notes**
 79. **References**
 80. **Appendix**
 81. **Index**
 82. **Table of Contents**
 83. **Abstract**
 84. **Summary**
 85. **Keywords**
 86. **Subject Headings**
 87. **Notes**
 88. **References**
 89. **Appendix**
 90. **Index**
 91. **Table of Contents**
 92. **Abstract**
 93. **Summary**
 94. **Keywords**
 95. **Subject Headings**
 96. **Notes**
 97. **References**
 98. **Appendix**
 99. **Index**
 100. **Table of Contents**
 101. **Abstract**
 102. **Summary**
 103. **Keywords**
 104. **Subject Headings**
 105. **Notes**
 106. **References**
 107. **Appendix**
 108. **Index**
 109. **Table of Contents**
 110. **Abstract**
 111. **Summary**
 112. **Keywords**
 113. **Subject Headings**
 114. **Notes**
 115. **References**
 116. **Appendix**
 117. **Index**
 118. **Table of Contents**
 119. **Abstract**
 120. **Summary**
 121. **Keywords**
 122. **Subject Headings**
 123. **Notes**
 124. **References**
 125. **Appendix**
 126. **Index**
 127. **Table of Contents**
 128. **Abstract**
 129. **Summary**
 130. **Keywords**
 131. **Subject Headings**
 132. **Notes**
 133. **References**
 134. **Appendix**
 135. **Index**
 136. **Table of Contents**
 137. **Abstract**
 138. **Summary**
 139. **Keywords**
 140. **Subject Headings**
 141. **Notes**
 142. **References**
 143. **Appendix**
 144. **Index**
 145. **Table of Contents**
 146. **Abstract**
 147. **Summary**
 148. **Keywords**
 149. **Subject Headings**
 150. **Notes**
 151. **References**
 152. **Appendix**
 153. **Index**
 154. **Table of Contents**
 155. **Abstract**
 156. **Summary**
 157. **Keywords**
 158. **Subject Headings**
 159. **Notes**
 160. **References**
 161. **Appendix**
 162. **Index**
 163. **Table of Contents**
 164. **Abstract**
 165. **Summary**
 166. **Keywords**
 167. **Subject Headings**
 168. **Notes**
 169. **References**
 170. **Appendix**
 171. **Index**
 172. **Table of Contents**
 173. **Abstract**
 174. **Summary**
 175. **Keywords**
 176. **Subject Headings**
 177. **Notes**
 178. **References**
 179. **Appendix**
 180. **Index**
 181. **Table of Contents**
 182. **Abstract**
 183. **Summary**
 184. **Keywords**
 185. **Subject Headings**
 186. **Notes**
 187. **References**
 188. **Appendix**
 189. **Index**
 190. **Table of Contents**
 191. **Abstract**
 192. **Summary**
 193. **Keywords**
 194. **Subject Headings**
 195. **Notes**
 196. **References**
 197. **Appendix**
 198. **Index**
 199. **Table of Contents**
 200. **Abstract**
 201. **Summary**
 202. **Keywords**
 203. **Subject Headings**
 204. **Notes**
 205. **References**
 206. **Appendix**
 207. **Index**
 208. **Table of Contents**
 209. **Abstract**
 210. **Summary**
 211. **Keywords**
 212. **Subject Headings**
 213. **Notes**
 214. **References**
 215. **Appendix**
 216. **Index**
 217. **Table of Contents**
 218. **Abstract**
 219. **Summary**
 220. **Keywords**
 221. **Subject Headings**
 222. **Notes**
 223. **References**
 224. **Appendix**
 225. **Index**
 226. **Table of Contents**
 227. **Abstract**
 228. **Summary**
 229. **Keywords**
 230. **Subject Headings**
 231. **Notes**
 232. **References**
 233. **Appendix**
 234. **Index**
 235. **Table of Contents**
 236. **Abstract**
 237. **Summary**
 238. **Keywords**
 239. **Subject Headings**
 240. **Notes**
 241. **References**
 242. **Appendix**
 243. **Index**
 244. **Table of Contents**
 245. **Abstract**
 246. **Summary**
 247. **Keywords**
 248. **Subject Headings**
 249. **Notes**
 250. **References**
 251. **Appendix**
 252. **Index**
 253. **Table of Contents**
 254. **Abstract**

(1) GENERAL INFORMATION: - - - - -

(i) APPLICANT: Perkin-Elmer Corporation,
Applied Biosystems Division

(ii) TITLE OF INVENTION: HYBRIDIZATION ASSAY USING SELF
QUENCHING
FLUORESCENCE PROBE

(iii) NUMBER OF SEQUENCES: 14

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: David J. Weitz,
Haynes & Davis

(B) STREET: 2180 Sand Hill Road, Suite 310

(C) CITY: Menlo Park

(D) STATE: California

(E) COUNTRY: USA

(F) ZIP: 94025-6935

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5 inch diskette

(B) COMPUTER: IBM compatible

(C) OPERATING SYSTEM: Microsoft Windows 3.1/DOS 5.0

(D) SOFTWARE: Wordperfect for windows 6.0,
ASCII (DOS) TEXT format

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:

(B) FILING DATE:

(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/340,558

(B) FILING DATE: 16-NOV-94

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: David J. Weitz

(B) REGISTRATION NUMBER: 38,362

(C) REFERENCE/DOCKET NUMBER: PELM4264CIP2

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (415) 233-0188

(B) TELEFAX: 415) 233-1129

2) INFORMATION FOR SEQ ID NO: 1:

(1) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 14 nucleotides

(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

24

(i) SEQUENCE CHARACTERISTICS:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

26

(2) INFORMATION FOR SEQ ID NO: 3:

(A) LENGTH: 27 nucleotides
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

27

(2) INFORMATION FOR SEO ID NO: 4

(A) LENGTH: 31 nucleotides
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEO ID NO: 4

31

(2) INFORMATION FOR SEO ID NO: 5

(A) LENGTH: 28 nucleotides
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5

28

(2) INFORMATION FOR SEQ ID NO: 6

(A) LENGTH: 31 nucleotides
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6

TTCATCCTTG TCATAGATAC CAGCAAATCC G

31

(2) INFORMATION FOR SEQ ID NO: 7

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 25 nucleotides

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7

TCACCCACAC TGTGCCCATC TACGA

25.

(2) INFORMATION FOR SEQ ID NO: 8

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 25 nucleotides

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single ..

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8

CAGCGGAACC GCTCATTGCC AATGG

25

(2) INFORMATION FOR SEQ ID NO: 9

(i) SEQUENCE CHARACTERISTICS:

(A). LENGTH: 26 nucleotides

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9

ATGCCCTCCC CCATGCCATC CTGCGT

26

(2) INFORMATION FOR SEQ ID NO: 10

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 30 nucleotides

(3) TYPE.: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10

AGACGCAGGA TGGCATGGGG GAGGGGCATAC

30

(2) INFORMATION FOR SEQ ID NO: 11

1) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24 nucleotides
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11
CGCCCTGGAC TTCGAGCAAG AGAT

24

(2) INFORMATION FOR SEQ ID NO: 12

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 28 nucleotides
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12
CCATCTCTTG CTCGAAGTCC AGGGCGAC

28

(2) INFORMATION FOR SEQ ID NO: 13

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: nucleotides
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13
CAAGCTTCCC GTTCTCAGCC T

21

(2) INFORMATION FOR SEQ ID NO: 14

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30 nucleotides
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14
ACCGTCAAGG CTGAGAACGG GAAGCTTGTC

30

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